

Product Support Guide

Model D104/D106

Introduction

Model Type

Color MFP

Launch Date

2/1/2011

S/N Configuration

V97/V98

Product Code

D104/D106

Brand/Model Name

Product Code	Lanier	Ricoh	Savin	Gestetner
D104	LD 620C	MP C2051	C9120	MP C2051
D106	LD 625C	MP C2551	C9125	MP C2551

Product Concept

The D104/D106 series is replacing the D037/D038/D041 series.

The D104/D106 will be launched to enhance our competitiveness, offering higher productivity, more solutions, improved eco specifications and advanced security features. The D104/D106 will allow us to keep our #1 color market share position and further expand it.

Launch Objectives are to:

- 1 - Keep color MFP Market share, Replace competitor's MIF and protect our MIF.
- 2 - Maximize profitability of aftermarket sales, Increase color document volume.
- 3 - Satisfy market demands for Eco friendly products In order to keep the #1 position and expand the color market share in Segment 1 and lower Segment 2, Ricoh has developed D104/D106. In the lower segment market, many users use inkjet printers or color laser printers for their color documents. Model D104/D106 targets to obtain competitors' TDV by replacing competitors' inkjet printers and color laser printers.

As a B2C strategic product, D104/D106 will replace monochrome MFPs in Segment 1 and lower Segment 2, and start the B2C conversion of sub devices in medium to large-sized companies, bringing color closer to the customer. By capturing their color document volume, D104/D106 would be more profitable than selling monochrome MFPs.



Product Support Guide

Model D104/D106

Order Number

Main Frame

Item	Model Name	EDP Code	Notes
D104	Lanier LD 620C Ricoh MP C 2051 Savin C9120	415511	Includes Duplex, Bypass, ADF, Printer/ Scanner, 160GB HDD, 1.5GB Ram, VM Card, App2Me, Data Overwrite Security, Encryption
D106	Lanier LD 625C Ricoh MP C2551 Savin C9125	415526	Includes Duplex, Bypass, ADF, Printer/ Scanner, 160GB HDD, 1.5GB Ram, VM Card, App2Me, Data Overwrite Security, Encryption

Note: Order Numbers are provided for reference purposes only. Please refer to your Pricing List for proper order numbers to insure you receive the correct branding emblem.

Options

Item	Description	EDP Code	Product Code	Common / Unique
Fax Option	Fax Option Type C2551	415537	D555-01	(U)
Envelope Feeder EF3010	Envelope Feeder EF3010	415562	D559-01	(U) Must set SP5063-002 to enable
Postscript3 Unit Type C2551	Postscript3 Unit Type C2551	415543	D556-04	(U)
USB Attachment Option	USB2.0/SD Slot Type G	415672	D556-16	(U)
Caster Table for PB3070	Caster Table Type B	414819	D448-03	(C) D038/D041
Inner 1 Bin Tray	1 Bin Tray BN3060	414617	D426-17	(C) D038/D041
PictBridge	Camera Direct Print Card Type I	415575	D546-21	(C) D086/D087
1 Tray Paper Bank (500 x 1)	Paper Feed Unit PB3070	414616	D425-17	(C) D038/D041
Side Tray	Side Tray Type C2550	414618	D427-17	(C) D038/D041
Internal Shift Tray	Internal Shift Tray SH3030	414619	D428-17	(C) D038/D041
Internal Finisher	Internal Finisher Type C2550	414620	D429-17	(C) D038/D041
Punch Unit NA 2/3 holes	Punch Unit PU3010NA	414621	D390-17	(C) D038/D041

Product Support Guide

Model D104/D106

Item	Description	EDP Code	Product Code	Common / Unique
Punch Unit EU 2 holes	Punch Unit PU3010EU2	414622	D390-27	(C) D038/D041
Punch Unit EU 4 holes	Punch Unit PU3010EU4	414624	D390-67	(C) D038/D041
Accessibility Handle	ADF Handle Type B	414965	D366-10	(C) D038/D041
Platen	Platen Cover Type 3800C	412551	G329-57	(C) D038/D041
2 Tray Paper Bank (500x 2)	Paper Feed Unit PB3030	413673	D331-01	(C) D038/D041
SAF memory for Fax	Memory Unit Type B 32MB	N/A	G578-17	(C) D038/D041
IEEE1284	IEEE 1284 Interface Board Type A	411699	B679-17	(C) D038/D041
IEEE 802.11a/g EU/AA	IEEE 802.11a/g Interface Unit Type J	414009	D377-02	(C) D038/D041
IEEE 802.11g Specified Countries	IEEE 802.11g Interface Unit Type K	414186	D377-19	(C) D038/D041
File Format Converter	File Format Converter Type E	414007	D377-04	(C) D038/D041
Key Counter Bracket	Key Counter Bracket Type H	412552	A674-05	(C) D038/D041
Optional Counter Interface Unit Type A	Optional Counter Interface Unit Type A	413012	B870-11	(C) D038/D041
Unicode Font Package for SAP 1 License	Unicode Font Package for SAP 1 License	413009	B869-01	(C) D038/D041
Unicode Font Package for SAP 10 License	Unicode Font Package for SAP 10 License	413010	B869-02	(C) D038/D041
Unicode Font Package for SAP 100 License	Unicode Font Package for SAP 100 License	413011	B869-03	(C) D038/D041
Fax Stamp ink	Marker Type 30	334049	H903-02	(C) D038/D041
Hand Set for Fax	Hand Set Type1018	410781	B433-01	(C) D038/D041
IEEE 802.11a/g NA	IEEE 802.11a/g Interface Unit Type J	414008	D377-01	(C) D038/D041
Data Overwrite Security Unit	Data Overwrite Security Unit Type H	414002	D377-06	(C) D086/D087

Product Support Guide

Model D104/D106

Item	Description	EDP Code	Product Code	Common / Unique
Card Reader Bracket Type C5501	Card Reader Bracket Type C5501	415495	D547-03	(C) D086/D087
Gigabit Ethernet	Gigabit Ethernet Type B	414204	D377-21	(C) D017/D009
Cabinet	FAC43 Cabinet Stand	415016	---	(C) D038/D041
Blue Tooth	TBA	TBA	TBA	TBA
IPDS	TBA	TBA	TBA	TBA
USB Keyboard	Optional USB Keyboard	100266FNG	---	---
Bracket	Optional USB Keyboard Bracket	100268FNG	---	---

Note: The Data Overwrite Security Unit is ISO 15408 is Certified. The Standard unit included with the machine is not certified

Supplies/Yields

Item	Name	Order Code	Target Yield	Notes
Ricoh/Savin/Lanier				
Black Toner	Print Cartridge Black Type MP C2551/C9125/LD625C	841500	10,000*	Used in D104/D106 only
Yellow Toner	Print Cartridge Yellow Type MP C2551/C9125/LD625C	841501	9,500*	Can be used in D104/D106/D037/D038/D041
Magenta Toner	Print Cartridge Magenta Type MP C2551/C9125/LD625C	841502	9,500*	Can be used in D104/D106/D037/D038/D041
Cyan Toner	Print Cartridge Cyan Type MP C2551/C9125/LD625C	841503	9,500*	Can be used in D104/D106/D037/D038/D041
Toner (Existing)				
Black Toner	Print Cartridge Black Type MP C2550/C9025/LD525C	841280	10,000*	Used in D037/D038/D041 only
Cyan Toner	Print Cartridge Cyan Type MP C2550/C9025/LD525C	841281	5,500	Can be used in D104/D106/D037/D038/D041
Magenta Toner	Print Cartridge Magenta Type MP C2550/C9025/LD525C	841282	5,500	Can be used in D104/D106/D037/D038/D041
Yellow Toner	Print Cartridge Yellow Type MP C2550/C9025/LD525C	841283	5,500	Can be used in D104/D106/D037/D038/D041
Staple Set Cartridge	Staple Type T	415009	5,000	
Staple Refill Cartridge	Refill Staple Type T	415010	10,000	
Marker 30	Marker Type 30	334049	12,000	

Supply Yield Condition:

- 1) * 5% chart is used to measure the yield.
- 2) The condition is standard temperature and humidity.
- 3) This yield number may change depending on the circumstances and printing conditions.
- 4) The New Toner is Tri-branded and used in all models. (One EDP Code)
- 5) The new toner cartridge is a High Yield Cartridge

Option Compatibility

Product Support Guide

Model D104/D106

Hardware options

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		Platen	ARDF	Accessibility handle	1-Tray Paper bank	Caster table	2-Tray Paper Bank	1 Bin Tray	Shift Tray	Side Tray	Internal Finisher	Punch Unit (US 2/3)	Envelope Feeder	Key Counter Bracket	Optional Counter interface	Cabinet
1	Platen		N	N												
2	ARDF	N		Y												
3	Accessibility handle	N	Y													
4	1-Tray Paper bank				Y	N										N
5	Caster table				Y	N										N
6	2-Tray Paper Bank				N	N										N
7	1 Bin Tray										N	N				
8	Shift Tray										N	N				
9	Side Tray															
10	Internal Finisher							N	N			Y				
11	Punch Unit (US 2/3)							N	N		Y					
12	Envelope Feeder															
13	Key Counter Bracket															
14	Optional Counter interface															
15	Cabinet				N	N	N									

Y: Must Install / N: Cannot Install

Controller options

Product Support Guide

Model D104/D106

		1	2	3	4	5	5	6	7	8	9	10	11	12
		Fax Option	SAF memory	Handset	Fax Stamp	PostScript3	PictBridge Option	IEEE 1284 Interface	IEEE802.11a/g	Gigabit Ethernet	HDD Data Overwrite	USB2.0/SD SLOT	File Format Converter	Card Reader Bracket
1	Fax Option		Y	Y	Y									
2	SAF memory	Y												
3	Handset	Y												
4	Fax Stamp	Y												
5	PostScript3													
6	PictBridge Option													
6	IEEE 1284 Interface								N	N			N	
7	IEEE802.11a/g							N		N			N	
8	Gigabit Ethernet							N	N				N	
9	HDD Data Overwrite													
10	USB2.0/SD SLOT													
11	File Format Converter							N	N	N				
12	Card Reader Bracket													

Y: Must Install / N: Cannot Install

Product Support Guide

Model D104/D106

Branding Information

Branding is required as the machines are shipped as a generic version.

Ricoh version machines: You must attach the model label (provided) to the front cover.

Savin/Lanier: You must attach the model label (provided) to the front cover and set the Plug and Play name with SP 5-907.

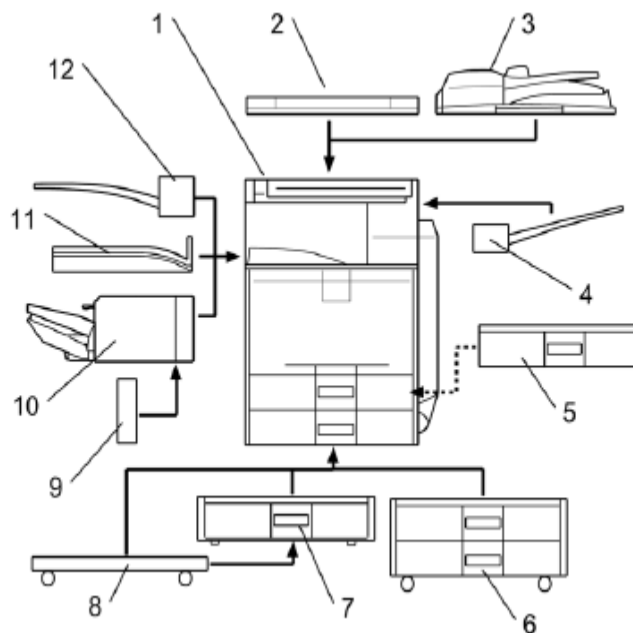
Branding Plaques

Model	Ricoh		Lanier		Savin	
	Product Code	MIU	Product Code	MIU	Product Code	MIU
D104	D104-31	415517	D104-34	415520	D104-32	415518
D106	D106-31	415532	D106-34	415535	D106-32	415533

Configuration

Main Frame Configuration

D104/D106



Item	Machine Code	Call Out	Remarks
Mainframe	D104/D106	[1]	D104/D106
Platen Cover	G329	[2]	
ARDF	D541	[3]	Standard
Side Tray	D427	[4]	

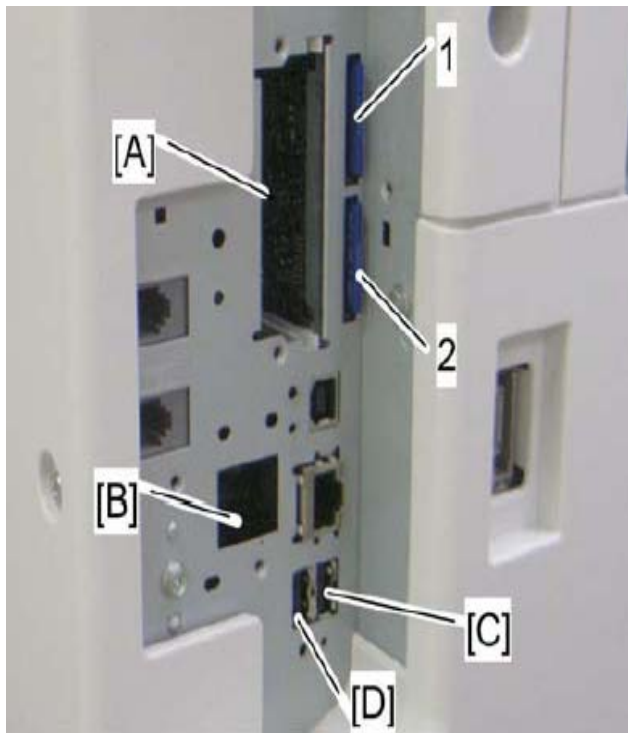
Product Support Guide

Model D104/D106

Item	Machine Code	Call Out	Remarks
1-Bin Tray	D426	[12]	One of the following 4 choices: [10] only, [11] only, [12] only, or [11] and [12]
Shift Tray	D388	[11]	
Internal Finisher	D429	[10]	
Punch unit: 2/3 holes	D390-17	[9]	Requires [10]
Punch unit: 2 holes	D390-27	[9]	Requires [10]
Punch unit: 4 holes	D390-31	[9]	Requires [10]
Two Tray Paper Feed unit	D331	[6]	One from [6], [7], and [8] The one- Tray PFU [6] Requires [8] If neither [6] nor [7] is installed, install [8] if required by the customer
One Tray Paper Feed Unit	D425	[7]	
Caster Table	D448	[8]	
Envelope Feeder	D559	[5]	This option can only be installed in tray 1 of main frame

MFP Options

MFP Option Board Slot / SD Card Assignments



Option	Slot	Notes
Data Overwrite Security/HDD Encryption	1	Standard Pre-installed on a single SD card in slot 1
PostScript 3	1	Must merge Data Overwrite Security/HDD Encryption
Picbridge	1	Must merge to PostScript
IPDS	1	TBA
Updating Firmware	2	VM Card must be removed to update firmware
VM Card	2	Comes standard with machine and must stay in slot 2
Gigabit Ethernet	B	Used for Gigabit Ethernet only
IEEE1284 IEEE802.11a/g File Format Converter Bluetooth	A	Only one option can be installed in I/f Slot B Bluetooth (TBA)
USB Slot for Digital Camera	C	Camera must be Picbridge compliant
USB Slot for Optional USB2.0/SD Card Slot	D	Scan to and Print from PostScript or PDF Direct Card must be installed PDF Direct Card supplied with USB2.0/SD Card option

Product Support Guide

Model D104/D106

Installation

Installation Requirements

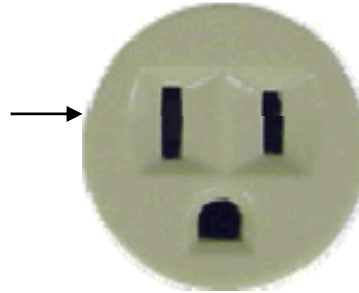
Temperature Range:	10° C to 32° C (50° F to 89.6° F)
Humidity Range:	15% to 80% RH
Ambient Illumination:	Less than 1,500 lux (do not expose to direct sunlight)
Ventilation:	3 times/hr/person
Ambient Dust:	Less than 0.075 mg/m ³ (2.0 x 10-6oz/yd ³)
Avoid areas exposed to sudden temperature changes:	
Areas directly exposed to cool air from an air conditioner	
Areas directly exposed to cool from a heater.	
Do not place machine where it will be exposed to corrosive gas or vapor.	
Do not install the machine at any location over 2,000m (6,500 ft.) above sea level.	
Place the machine on a strong and level base. Inclination on any side should be no more than 5mm (0.2")	
Do not place the machine where it may be subject to strong vibrations.	
Machine level	Front to back: within 5mm (0.2") of level
Machine level	Right to left: within 5mm (0.2") of level

Power Requirements

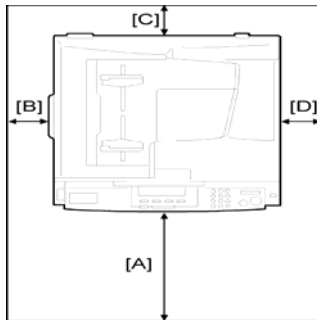
Input voltage level: 110 - 120 V, 60Hz: 12A

Do not place anything on power cord.

The required wall outlet is a NEMA 5-15R (receptacle)



Space



A (Front)	Over 100m(3.9")
B (Left)	Over 100m(3.9")
C (Rear)	Over 315m(12.4")
D (Right)	Over 400m(15.7")

Foot Print

Dimensions: W 587mm x D 655mm x H 725mm / 23.1"x25.8"x28.5" (w/o ARDF)

Dimensions: W 587mm x D 655mm x H 845mm / 23.1"x25.8" x33.3" (with ARDF)

NOTE: Measurement Conditions: Without Finisher installed and bypass table closed

Product Support Guide

D104/D106

Power Consumption / Noise Emission

Power Consumption

	US/EU		Wattage	Recovery Time	Shift Time	BTU
Max Power	US		1500 watts	---	---	5118.2
	EU		1680 watts	---	---	5459.4
Operating Power	US		540 watts	---	---	1842.5
	EU		540watts	---	---	1842.5
Ready Mode	US		120 watts	---	---	409.4
	EU		119 watts	---	---	406.0
Standby	US		250 watts	---	---	853.0
	EU		250 watts	---	---	853.0
Panel Off Timer	US		250 watts	7 Sec	1 min	853.0
	EU		246 watts	7 Sec	1 min	839.38
Panel Off level 2	US		204 watts	10 Sec	1 min	696.0
	EU		210 watts	10 Sec	1 min	716.5
Low Power	US		96.7 watts	18 sec	15 min	329.9
	EU		106 watts	17 sec	16 min	361.6
Sleep Mode	US		1.0 watts	24 sec	45 min	3.4
	EU		1.1 watts	24 sec	30 min	3.4
TEC (Typical Electricity Consumption)	D014	US	1.000 (kWh)	---	---	---
		EU	1.000 (kWh)			
	D106	US	1.274(kWh)	---	--	---
		EU	1.200 (kWh)			

Note: Energy Star Qualified Version ES 1.2

Sound Noise Level

Mainframe only/

	D104	D106
Stand-by	40 dB	40 dB
Copying	64 dB	66 dB

Complete System (Data is a result of actual measurement)

	D104	D106
Stand-by	44 dB	44 dB
Copying	68db	70 dB

Sound Pressure Level

Mainframe only

	D104	D106
Stand-by	34 dB	34 dB
Copying	58 dB	60 dB

Complete System

	D104	D106
Stand-by	38.0 dB	38.0 dB
Copying	Monochrome : 61.0 dB Color: 62.0 dB	Monochrome : 62.8 dB Color: 63.5 dB

Note: Power consumption data are actual data and may differ depending on the condition and environment of the machine.

Product Support Guide

D104/D106

Ozone/ Dust / Styrene / TVOC / Benzene Emission Level (Target)

*Please note these are targeted value only. Please refer to "Product Environment Information" for actual data.

		Full Color (mg/ h)	Monochrome (mg/h)
Ozone Emission	Stand by + Copying	3.0 mg/h or less	1.5 mg/h or less
Dust	Stand by + Copying	4.0 mg/h or less	4.0 mg/h or less
Styrene Emission	Stand by + Copying	1.8 mg/h or less	1.0 mg/h or less
TVOC (*)	Stand by	2.0 mg/h or less	2.0 mg/h or less
	Stand by + Copying	18.0 mg/h or less	10.0 mg/h or less
Benzene	Stand by + Copying	Less than 0.05 mg/h	Less than 0.05mg/h

(*) TVOC: Total Volatile Organic Compounds

NOTE: The above measurements were made in accordance with ISO 7779. The measurements were taken from the normal position of the operator.

Installation Times

Mainframe: 30 minutes

Peripherals:

Peripherals	Installation Time (Minutes)	Internal Options	Installation Time (Minutes)
ARDF*	15	PostScript3	5
1-Tray Paper Feed unit	10	PictBridge	5
2-Tray Paper Feed unit	10	IEEE802.11a/g	5
1 bin Tray	10	Gigabit Ethernet	5
Shift Tray	10	IEEE 1284	5
Side Tray	10	File Format Converter	10
Internal Finisher	15	Envelop Feeder	5
Punch Unit	30	Caster Table	5
FAX Option	15	Platen Cover	5
USB/SD Slot	10	Fax Hand Set	5

Storage/Transportation

	Storage	Transportation
Mainframe	Temperature/humidity - 30°C 40°C(86°F-104°F) Less than 85%RH Storage Period: Maximum 12 months from production	Temperature/humidity: -30°C– 45°C (86° F-113° F)15% - 95%RH
Toner (*1)	Temperature/humidity 50°C or less (Do not leave under 36°C~ 40°C(96.8°F-104°F) over one month or under 50°C over 12 hours) Avoid direct sunlight 15% ~ 80% RH Storage Period Storage period: Max 12 months	Other condition is same as storage

NOTE: Do not store more than 12 hours under the temperature between 40°C and 50°C(86°F-122°F). Do not store more than a month under the temperature between 35°C and 40°C(95°F-104°F). Store in a dry, dark place where temperature does not exceed 40°C (104°F) on continuance storage/transportation conditions.

Product Support Guide

D104/D106

Parts / Special Tools / Maintenance

PM/EM Parts / Yields

Mainframe D106/D106

Unique/Common

U: Unique for this model

C: Common with listed model

Part Number	Description	Q'ty/ Unit	PM Interval	Unique or Common
PM Parts				
PCU				
D0392030	Drum Unit	1	60K	(C) D038/D041
Transfer				
D1056036	Intermediate transfer cleaning unit with the waste toner tank	1	60K (Note 1,3)	(C) D038/D041
D0396029	Image Transfer Belt	1	240K	(C) D038/D041
D0396210	PTR Unit	1	240K	(C) D038/D041
Paper Feed				
B1542722	Friction Pad	2	120K	(C) D038/D041
AF031084	Feed Roller	2	120K	(C) D038/D041
Other				
D0396401	Drum Waste Toner Tank (Note 2, 3)	1	60K	(C) D038/D041
AA010122	Dust Filter	1	150K	(C) D038/D041
EM Parts (Replace as needed)				
Developer Unit				
D8303001	Developer Unit (Bk) Note:4,6	1	Note:4,6	U
D8093002	Developer Unit (C) Note:4,6	1	Note:4,6	(C) D038/D041
D8093003	Developer Unit (M) Note:4,6	1	Note:4,6	(C) D038/D041
D8093004	Developer Unit (Y) Note:4,6	1	Note:4,6	(C) D038/D041
PCDU				
D8302000	PCDU-(BK) Note:4,6	1	Note:4	U
D8092001	PCDU-(C) Note:4,6	1	Note:4	(C) D038/D041
D8092002	PCDU-(M) Note:4,6	1	Note:4	(C) D038/D041
D8092003	PCDU-(Y) Note:4,6	1	Note:4	(C) D038/D041
Fusing				
D1054050	Belt Unit Assy Note:4	1	Note:4	U
AE020192	Pressure Roller Note:4	1	Note:4	U
D1064001	Fusing Unit (NA) Note:4,5	1	Note:4,5	U
D1064002	Fusing Unit (EU) Note:4,5	1	Note:4,5	U

NOTE 1: The yield of the Intermediate transfer cleaning unit (w/o waste toner tank) is 180k, but the waste toner tank yield is 60k.

NOTE 2: This item is also user-replaceable.

NOTE 3: The yield figures in the above table are based on the following conditions:

A4 (LT) long-edge feed, 5% image coverage ratio, Color ratio: 20%, 2 print/job

Note 4: Due to their durability and extended service life, the above parts are treated as EM parts.

Note 5: The fusing unit does have a target yield of 240k. However, the total copy/print volume made by the machine will not reach the target yield of 240K within the machine's targeted lifetime if the machine is used under the target usage conditions (ACV, color ratio, P/J, and C/O). For this reason, the fusing unit is not categorized as a PM part but as a yield part (EM part).

Note 6: The PCDU consist of the entire Drum assembly with PCU, Developer Unit and Cleaning Unit, there is no set replacement interval.

Product Support Guide

D104/D106

Additional Yield Information

	1P/J	2P/J (Target)	3p/j
PCU - K	37k (62%)	60k (100%)	60k (100%)
PCU – CMY	36k (60%)	60k (100%)	60k (100%)
Developer Unit – K	240k (71%)	240k (100%)	240k (100%)
Developer Unit – CMY	171k (71%)	240k (100%)	240k (100%)
ITB Unit	147k (61%)	240k (100%)	240k (100%)
PTR UNIT	147k (61%)	240k (100%)	240k (100%)
Fusing Unit	152k (63%)	240k (100%)	240k (100%)

Note: Image coverage ratio, color ratio and pages per job will impact the life expectancy of specific PM parts.

Managing the PM Cycle

The “No. of Days Remaining” Counter

The following SP modes display the estimated number of days left until a given PM part is expected to reach its target yield, either in terms of pages or rotational distance. This estimation takes into account the current value of the page or rotational counter, as well as the daily usage trends (number of pages, rotational distance) of the machine.

Checking this value is an easier and more accurate way of knowing how close a given PM part is to its target yield than simply checking the PM counter.

Units to which these counters apply:

PCU (K/C/M/Y)
Development unit (K/C/M/Y)
ITB unit
ITB cleaning unit
Fusing unit
Paper transfer unit

IMPORTANT:

Since a highly accurate estimate cannot be produced based on the number of pages or rotational distance alone, when confirming the number of days remaining for a given part, please check both types of “No. Days Remaining” counters.

The number of days remaining is calculated as follows:

No. Days Remaining (pages) = [Target yield (Page) - Current Page counter] / Value of the “Ave. No. pages printed daily” counter

No. Days Remaining (rotational distance) = [Target yield (Rotation) - Current Rotation counter] / Ave. daily rotational distance

If the value of either of these counters is “10”, this means that the part is estimated to reach its target yield in approximately ten days.

If the value of either of these counters is “255”, this means that the part is estimated to reach its target yield in approximately 255 days (or more). This value has been set as the maximum value displayed, in order to maximize the accuracy of the estimate.

If the value of either of these counters is “0”, this means that the part has already reached/surpassed its target yield

Remain day: Page counter		Remain day: Rotation counter	
SP Number	Name:	SP - Number	Name:
SP7951-01	Remain day: Page: PCU: Bk	SP7951-31	Remain day: Rotation: PCU: Bk
SP7951-02	Remain day: Page: PCU:C	SP7951-32	Remain day: Rotation: PCU:C
SP7951-03	Remain day: Page: PCU: M	SP7951-33	Remain day: Rotation: PCU:M
SP7951-04	Remain day: Page: PCU: Y	SP7951-34	Remain day: Rotation: PCU:Y
SP7951-05	Remain day: Page: Dev unit: Bk	SP7951-35	Remain day: Rotation: Dev unit: Bk
SP7951-06	Remain day: Page: Dev unit: C	SP7951-36	Remain day: Rotation: Dev unit: C
SP7951-07	Remain day: Page: Dev unit: M	SP7951-37	Remain day: Rotation: Dev unit: M
SP7951-08	Remain day: Page: Dev unit: Y	SP7951-38	Remain day: Rotation: Dev unit: Y
SP7951-13	Remain day: Page: ITB	SP7951-43	Remain day: Rotation: ITB
SP7951-14	Remain day: Page: Cleaning	SP7951-44	Remain day: Rotation: Cleaning
SP7951-15	Remain day: Page: Fusing unit	SP7951-45	Remain day: Rotation: Fusing unit
SP7951-18	Remain day: Page: Paper Transfer	SP7951-48	Remain day: Rotation: Paper Transfer

Product Support Guide

D104/D106

Options

Auto Reverse Document Feeder D541

Unique/Common

U: Unique for this model

C: Common with listed model

Part Number	Description	Q'ty /Unit	PM Interval : Km (feet)	Unique or Common
A8061295	Paper Feed Belt	1	80k	C (D086/D087)
B3872161	Pick-up Roller	1	80k	C (D086/D087)
A8592241	Reverse Roller	1	80k	C (D086/D087)

NOTE 1: Due to their durability and extended service life, the paper feed belt, pick-up roller, and reverse roller are treated as EM parts.

Special Tools

Item	Part Number	Description	Q'ty	Unique or Common
1	B6455010	SD Card	1	C (General)
2	VSSM9000	Digital Multimeter – FLUKE189/FVF	1	C (General)
3	G021 9350	Loop-back Connector – Parallel	1	C (General)
4	C401 9503	20X Magnification Scope	1	C (General)
5	A2579300	Grease Barrierta – S552R	1	C (General)
6	A0929503	C4 Color Test Chart (3 pcs/set)	1	C (General)
7	B6795100	Plug - IEEE1284 Type C	1	C (General)
8	A1849501	Optics Adjustment Tool (2pcs/set)	2	C (General)
9	---	Ricoh System Information Tool (Support Tool Version 2) Basic version Mail version Rlog tool (for use with GW controller)	1	C (General)

NOTE 1: Loop-back Connector – Parallel (item 3) requires Plug - IEEE1284 Type C (item 7).

NOTE 2: A PC (Personal Computer) is required for creating the Encryption key file to an SD card when replacing the controller board for a model in which HDD encryption has been enabled.

Target Reliability

Items	D104	D106
Average Monthly Volume	3k/Month	4k/Month
Max. Monthly Volume	10k	10k
Color ratio	20%	20%
PM Interval	60k	

Product Support Guide

D104/D106

Specifications / Documentation

Mainframe												
Configuration:		Desk Top										
Original scanning:		One-dimensional solid scanning through CCD										
Copy process:		Dry electrostatic transfer system										
Development:		Dry two-component magnetic brush development system										
Fusing:		New Color QSU (Quick Start up)										
Original Type:		Sheet / Book / Object										
Original Size:		Max: 11"x17"(DLT) / A3										
Scan Resolution:		1200dpi *only twain driver 600dpi / 400dpi / 300dpi / 200dpi / 100dpi										
Copy/Print Resolution:		Copy	B/w 600dpi 4 bit Color 600dpi 4 bit									
		Print	1200dpi 1bit/600dpi 2bit/1bit									
Max Image-able Area:		11" x 17" / 297 x 432										
Recommended Paper Size:	Standard 1 st Paper Tray 2 nd Paper Tray	A3 SEF, B4 SEF, A4 LEF/SEF, B5 SEF/LEF, A5 LEF, 11"x17"(DLT) SEF, 8 ½"x14" (LG) SEF, 8 ½"x13" (Foolscap) SEF, 8 ½"x11" (LT) LEF/SEF, 8¼"x14" (Government LG), 8 ¼"x13" (Folio) SEF, 8"x13"(F/GL), 8"x10" (Eng Quatro) Half Letter 5.5 x 8.5 7 ¼"x10 ½" (Executive) SEF/LEF, 11"x15" SEF, 10"x14" SEF, Envelope size: Com 10(4.125x9.5) Monarch (3.87x7.5), C5, C6, DL Env, 11x15, 10x19 Note: Envelopes with optional tray (tray 1 only)										
	Option 3 rd Paper Tray 4 th Paper Tray	A3 SEF, B4 SEF, A4 LEF/SEF, B5 SEF/LEF, A5 SEF/LEF, 11"x17"(DLT) SEF, 8 ½"x14" (LG) SEF, 8 ½"x13" (Foolscap) SEF, 8 ½"x11" (LT) LEF/SEF, 8¼"x14" (Government LG), 8 ¼"x13" (Folio) SEF, 8"x13"(F/GL), 8"x10" (Eng Quatro) 7 ¼"x10 ½" (Executive) SEF/LEF, 11"x15" SEF, 10"x14" SEF,										
		<div><Custom Size Paper></div> <table><tr><td></td><td>Width</td><td>Length</td></tr><tr><td>mm</td><td>182 – 297mm</td><td>148 – 432mm</td></tr><tr><td>inches</td><td>7.17" – 11.69"</td><td>5.83" – 17"</td></tr></table>			Width	Length	mm	182 – 297mm	148 – 432mm	inches	7.17" – 11.69"	5.83" – 17"
	Width	Length										
mm	182 – 297mm	148 – 432mm										
inches	7.17" – 11.69"	5.83" – 17"										
		<div><Custom Size Paper></div> <table><tr><td></td><td>Width</td><td>Length</td></tr><tr><td>mm</td><td>140 – 297mm</td><td>148 – 432mm</td></tr><tr><td>inches</td><td>5.52" – 11.69"</td><td>5.83" – 17"</td></tr></table>			Width	Length	mm	140 – 297mm	148 – 432mm	inches	5.52" – 11.69"	5.83" – 17"
	Width	Length										
mm	140 – 297mm	148 – 432mm										
inches	5.52" – 11.69"	5.83" – 17"										

Product Support Guide

D104/D106

Mainframe											
	Bypass Tray Feed	A3 SEF, B4 SEF, A4 LEF/SEF, B5 SEF/LEF, A5 LEF/SEF, A6 SEF, B6 SEF C5 SEF/LEF, C6 LEF, 110mmx210mm(DL Env) SEF 11"x17"(DLT) SEF, 8 ½"x14" (LG) SEF, 8 ½"x13" (Foolscap) SEF, 8 ½"x11" (LT) LEF/SEF, 8¼"x14" (Government LG), 8 ¼"x13" (Folio) SEF, 8"x13"(F/GL), 8"x10" (Eng Quatro) 7 ¼"x10½" (Executive) SEF/LEF, 5½"x8½" (HLT) SEF 4.125"x9.5"(Com10) SEF, 3.875"x7.5"(Monarch) 12"x18" SEF, 11"x15" SEF, 10"x14" SEF, <Custom Size Paper> <table><tr><td></td><td>Width</td><td>Length</td></tr><tr><td>mm</td><td>90 -305mm</td><td>148 – 600mm</td></tr><tr><td>inches</td><td>3.55" –12"</td><td>5.83" – 23.62"</td></tr></table>		Width	Length	mm	90 -305mm	148 – 600mm	inches	3.55" –12"	5.83" – 23.62"
	Width	Length									
mm	90 -305mm	148 – 600mm									
inches	3.55" –12"	5.83" – 23.62"									
Auto Original Size Detection:	Exposure Glass	<US model> 11"x17"(DLT) SEF, 8 ½"x14" (LG) SEF, 8 ½"x11" (LT) LEF/SEF, 8½"x5½"(HLT) LEF									
	ARDF	<US model> A3 SEF, A4 LEF/SEF, 11"x17"(DLT) SEF, 8 ½"x14" (LG) SEF, 8 ½"x11" (LT) LEF/SEF, 5 ½"x8 ½" (HLT) LEF/SEF, 10"x14" SEF, 7¼"x10½" SEF									
Paper Weight:	Tray 1	16-68lbs / 60-256 g/ m ²									
	Tray 2	16-45lbs / 60-169 g/m ²									
	Bypass Tray	13.8-68lbs / 52-256 g/ m ²									
	Paper Bank	16-28lbs / 60-105 g/ m ²									
	Duplex Unit	16-28lbs / 60-105 g/m ²									
Continuous Copy Speed Platen	Simplex	FC: 25cpm / BW: 25cpm (LT/A4 LEF) FC: 13cpm / BW: 13cpm (DLT/A3) FC: 15.5cpm / 15.5cpm (Legal)									
	Duplex	FC: 25cpm /BW: 25cpm (LT/A4 LEF) FC: 9cpm / BW: 9.5cpm (DLT/A3) FC: 10.5cpm / 10.6cpm (Legal)									
Copy Speed ARDF	Simplex	FC: 25cpm / BW: 25cpm (LT/A4 LEF) FC: 13cpm / BW: 13cpm (DLT/A3) FC: 15cpm / BW: 15cpm (Legal)									
	Duplex	FC: 25cpm / BW: 25cpm (LT/A4 LEF) FC: 9cpm / BW: 9.5cpm (DLT/A3) FC: 10cpm / BW: 10.6cpm (Legal)									
1 st Copy Time : (LT/A4 LEF/from 1 st tray)		FC: 9.2sec. / BW: 6.4sec.									
Warm-up Time		<table><tr><td>From Main Power off</td><td>22 sec</td></tr><tr><td>From Sleep Mode</td><td>10 sec</td></tr></table> <p>* Please note that warm up time are actual data and may differ depending on the condition and environment of the machine</p>	From Main Power off	22 sec	From Sleep Mode	10 sec					
From Main Power off	22 sec										
From Sleep Mode	10 sec										
Multiple Copying		Up tp 999									
Reproduction Ratio	US Model	7 Reduction & Enlargements 400%,200%,155%,129%,121% 100%,93%,85%,78%,73%,65% 50%,25%									

Product Support Guide

D104/D106

Mainframe		
Zoom		From 25% to 400% in 1% step
Paper Feeding Capacity: (by 80g/m ² paper)20LB Bond	Standard	250sheets x 2trays Bypass Tray: 100sheets
	Option	Paper Bank Unit: 500sheets x 2 trays, or Paper Bank Unit: 500sheets x 1 tray
	Max. Paper Feeding Capacity	1,600 sheets
Paper Output Capacity: (by 80g/m ² paper)20LB Bond	Standard	500sheets / 250sheets for size larger than B4/LG
	Option	1 Bin Tray: 100 sheets Shift Sort Tray: 250 sheets Side Tray: 50 sheets Internal Finisher: 500 sheets
	Max. Paper Output Capacity	550sheets: Std tray(500sheets)+side Tray(50sheets)=550sheets, or Internal Finisher(500sheets)+side Tray(50sheets)=550sheets
Power Source	US model	120 – 127V 60Hz
	EU model	220 – 240V 50 – 60 HZ
Paper Volume Indicator		Standard Tray: Indication on the LCD panel only when paper does not exist In the tray. Paper Bank Unit: Indication on the LCD panel only when paper does not exist in the tray. Bypass: 2 Levels (Exist, Not Exist)

Thick Paper Productivity

Model	Mode	Paper Thickness(gsm)	LB Bond	BK CPM	FC CPM
D104	Thin Paper*1	52-59	13.8-15.7	20	20
	Plain Paper1	60-81	16-21.6	20	20
	Middle Thick	82-105	21.8-28	20	20
	Thick Paper 1	106-169	28.2-45	12.5	12.5
	Thick Paper 2	170-210	45.3-56	12.5	12.5
	Thick Paper 3	211-256	56.2-68.2	12.5	12.5
	OHP, 1200dpi printing High gloss paper	---	---	12.5	12.5
D106	Thin Paper*1	52-59	13.8-15.7	25	25
	Plain Paper1	60-81	16-21.6	25	25
	Middle Thick	82-105	21.8-28	25	25
	Thick Paper 1	106-169	28.2-45	12.5	12.5
	Thick Paper 2	170-210	45.3-56	12.5	12.5
	Thick Paper 3	211-256	56.2-68.2	12.5	12.5
	OHP, 1200dpi printing High gloss paper	---	---	12.5	12.5

Note : 1lbs = about 3.75 gsm

Product Support Guide

D104/D106

Copier Enhanced Features		Remarks
Image Density	Auto Density Selection	
	Manual	9 levels
Color Mode	Black & White mode	Default
	Auto Color Selection (ACS)	
	Full Color	Yes
	Single Color	(Default: not indicated) Preset: 12 colors x4 Density (Default = Red), User color: 15 colors x4 Density
	Two Color	(Default: not indicated) Black and Other 12 color User color: choice from 15 color
Copy Mode	Default = Auto Text & Photo Separation (Printed/Glossy/Copied) Auto Text & Photo Separation (Printed/Glossy/Copied) Photo Text/map/Pale/Generation	
Copy Mode Photo Type Selection	In "Auto Text & Photo Separation Mode" and "Photo Mode", user can select photo type for most appropriate reproduction quality. Printed Photo Glossy Photo Copied Photo	
Paper Selection	Default = Auto Paper Selection (APS) Auto Paper Selection (APS) 1 st Tray 2 nd Tray 3 rd Tray (with Paper Bank) 4 th Tray (with Paper Bank) Bypass Tray	
Paper Type Capability Trays 1 and 2	[Paper Type] Plain Paper (No Display Paper Type), Recycled Paper, Special Paper 1-3, Color Paper, Letterhead, Cardstock, Preprinted Paper, Bond Paper, ,Label Paper, Envelope [Thickness] Thick Paper, Thick Paper 1, Thick Paper 2, Thick Paper 3	Standard Tray Envelopes(tray 1 only)
Paper Type Capability Trays 3 and 4	[Paper Type] Coated Paper : Gloss [Thickness] No Paper thickness setting [Paper Type] Coated Paper [Thickness] Thick Paper 1,Thick Paper 2,Thick Paper 3	Optional Paper Tray unit

Product Support Guide

D104/D106

Copier Enhanced Features		Remarks
Paper Type Capability Bypass	<p>[Paper Type] Plain Paper (No Display Paper Type), Recycle Paper, Special Paper 1-3, Color Paper, Letterhead, Cardstock, Label Paper, Preprinted Paper, Bond Paper, Plain Paper Backside</p> <p>[Thickness] Thin Paper, Normal Paper 1, Normal Paper 2, Medium Thick Paper, Thick Paper 1, Thick Paper 2, Thick Paper 3</p> <p>[Paper Type] Glossy Paper</p> <p>[Thickness] Normal Paper 1, Normal Paper2, Medium Thick Paper</p> <p>[Paper Type] Envelopes, Coated Paper</p> <p>[Thickness] Thick Paper 1, Thick Paper 2, Thick Paper 3</p> <p>[Paper Type] OHP</p> <p>[Thickness] No Paper thickness setting</p>	Bypass
Reduce / Enlarge	Auto Magnification Selection (AMS)	Yes
	Preset Reduce / Enlarge	Yes
	Zoom (25%-400% 1% step)	Yes
	Size Magnification	Yes
	Directional Magnification (%)	Yes
	Directional Size Magnification (Inch/mm)	Yes
	Full Image Copy (93% & Centering)	Yes
Auto Tray Switch	Auto Tray Switch	Yes
Duplex:	1 sided to 2 sided	Yes
	2 sided to 2 sided	Yes
	Bound Originals to 2 sided	Yes
	Front and back Bound originals to 2sided pages	Yes
Book	Booklet	Yes
	Magazine	Yes
Series	Book to 1 sided	Yes
	2 sided to 1 sided	Yes
Simplex Combine	2 into 1 simplex	Yes
	4 into 1 simplex	Yes
	8 into 1 simplex	Yes
	1 duplex into 1 simplex	Yes
	2 duplex into 1 simplex	Yes
	4 duplex into 1 simplex	Yes
Duplex Combine	4 into 1 duplex	Yes
	8 into 1 duplex	Yes
	16 into 1 duplex	Yes
	2 duplex into 1 duplex	Yes
	4 duplex into 1 duplex	Yes
	8 duplex into 1 duplex	Yes
Shift / Erase / Margin Adjustment	Centering	Yes
	Cornering	N/A

Product Support Guide

D104/D106

Copier Enhanced Features		Remarks
	Margin Adjustment	1mm step (0-30mm) Default = Front page: 5mm left Back page: 5mm right
	Erase Center	1mm step (2-99mm) Default = 10mm
	Erase Border	mm step (2-99mm) Default = 10mm
	Erase Center/Border	N/A
Cover Sheet / Chapter / Slip Sheets	Front Cover Copy or Blank	(Default = Copy)
	Front & Back Cover	Yes
	Chapter	Up to 20 chapters
	Slip Sheets	Yes
	OHP slip sheets Copy on OHP slip sheet is not available. (Default = Blank)	Yes
Image Rotation	Yes (A4/LT and B5 Size)	Yes
Electronic Sort	Without shift	Yes (Standard Tray)
	Rotate sort	Yes
	With shift	Yes (With Finisher)
Electronic Stack		Yes
Stapling	yes	Yes (With Finisher)
Editing Function Color Creation	Positive / Negative	Yes
	Color Erase	Yes
	Color Background	Yes
Editing Function Image Creation	Repeat	Yes
	Double Copy	Yes
	Mirror	Yes
	Positive / Negative	Yes
Stamp / Numbering	Stamp (Preset)	Yes (8 Stamps)
	User Stamp: 4stamps	Yes (4 Stamps)
	Date Stamp: 5 stamps	Yes (5 Stamps)
	Page Number: 6 stamps	Yes (6 Stamps)
Color Adjustment	Color Balance Adjustment	Yes
	Color Balance Program	Yes
	Auto Color Calibration (ACC)	Yes
Image Adjustment	Sharp / Soft: 7 levels	7 levels
	Contrast: 9 levels	9 levels
	Background Density Adjustment:	9 levels
Image Adjustment (continued)	Under Color Removal (UCR) Adjustment:	9 levels
	Auto Color Selection Sensitivity Adjustment:	5 levels
	Text & Photo Separation Sensitivity Adjustment:	9 levels
	Color Erase Sensitivity Adjustment: 5 levels	5 levels
Job Program	10 Programs	Yes
User Code	8 digits / 500 user codes	Yes
Other Functions	Interrupt Copy	Yes
	Job Preset:	Yes (8 jobs)
	Auto Start	Yes
	NRS Option	Yes
	Sample Copy:	Yes
	Simplified Display	Yes
	Login/Logout Button	Yes
	Logging Data Print out	Yes
	Document Server	Yes

Product Support Guide

D104/D106

Copier Enhanced Features		Remarks
Timer Settings	Energy Saver Timer:	N/A
	Auto Off Timer (Sleep Mode) Default 20 min	Yes (1 – 240 min)
	Panel Off Timer Default 20 min	Yes(1- 240 min)
	System Reset Timer Default 60 sec	Yes (10 – 999 sec)

Options

ARDF DF 3050		
Original Size	Simplex	5 ½" x 8 ½" LEF/SEF(HLT) – 11" X 17" (DLT) / A5 LEF/SEF - A3 Vertical: 5.1" - 11.7" / 128 - 297 mm Horizontal: 5.1" - 49.6" / 128 - 1260mm (5.1" – 17.0" / 128 – 432mm for copy & scanner function)
	Duplex	5 ½" x 8 ½" "LEF/SEF – 11" x 17" / A5 LEF/SEF – A3
Original weight	Simplex	11 – 34lbs / 40 – 128g/m ²
	Duplex	14 – 28lbs / 52 – 105g/m ² DLT: 17 – 28lbs/64 – 105g/m ²
Stack Capacity		50 sheets with 21lbs / 81.4g/m ² paper
Power Consumption		Less than 50 W
Dimensions (WxDxH)		21.7" x 19.3" x 4.7" / 550 x 491 x 120mm
Weight		Less than 22lbs/ Less than 10kg

Platen Cover Type 3800	
Dimension (WxDxH)	532 x 470 x 63 mm
Weight	1.85 kg

Paper feed unit PB 3030	
Paper Size:	7¼" x 10 ½" " LEF (HLT) – 11"x 17" (DLT) / A5 LEF/SEF –A3
Paper Weight	16-28lbs / 60 – 105g/m ²
Paper Capacity	1,000 sheets (500 sheets x 2 trays with 80g/m ² paper
Paper Consumption	Less than 28W (Power is supplied from mainframe)
Dimensions (WxDxH)	21.7" x 20.5" x 5.4" / 550 x 520 x 137mm
Weight	Less than 55.2 lbs / I less than 25kg

Paper Feed Unit PB 3070	
Paper Size:	7 ¼"x10 ½" - 11" x 17"(DLT) / A5 LEF – A3 SEF
Paper Weight	16-28lbs / 60 - 105gm ²
Paper Capacity	500 Sheets (80g/m ²)
Paper Consumption	Less Than 12W (Power is supplied from mainframe)
Dimensions (WxDxH)	21.7" x 20.5" x 5.4" / 550 x 520 x 137mm
Weight	Less Than 26.4lbs / Less Than 12kg

Product Support Guide

D104/D106

Caster Table Type B	
Dimensions (WxDxH):	22.2" x 21.7" x 3.2" / 565 x 550 x 80mm
Weight:	Less than 16.5lbs / Less than 7.5kg

Envelope Feeder EF3010	
Paper Capacity:	250 sheets(A3,A4,A5,A6,B4,B5,B6,DLT,Legal(8.5x14),Foolscap(8.5x13) Letter98.5x11),GovernmentLG(8.25x13),F/GL(8x13),Eng Quatro(8x10) 150 sheets(A5SEF/A6SEF/B6SEF/HalfLetterSEF)
Paper Size:	A3, A4, A5, A6, B4, B5, B6, DLT(11x17), Legal(8.5x14), Foolscap(8.5x13),Letter(8.5x11), GovernmentLG(8.25x14), Folio(8.25x13), F/GL(8x13),EngQuatro(8x10), Executive(7.25x10.5), Half Letter(5.5x8.5), Com10(4.125x9.5), Monarch(3.875x7.5),C5,C6,DLEnv,11x15, 10x14
Paper Weight	14-68 Bond/ 60-256 gm ²
Power Consumption:	N/A
Dimensions (WxDxH):	19.5x21.7x3.7/495.8x550 x94
Weight:	Less than 4.4 lbs/ less than 2kg

Note: Must enable SP5063-002 to enable small sizes when installing the envelope tray

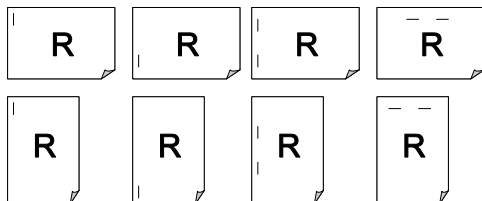
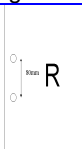
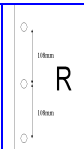
1 Bin Tray BN 3060	
Paper Capacity:	100 sheets (80g/ m ²)
Paper Size:	5½"x8½" LEF -11"x17" SEF / A5 LEF – A3 SEF
Paper Weight	16 –28 lb / 60 -105g/m ²
Power Consumption:	Less than 1W
Dimensions (WxDxH):	16.9"x19.6"x4.4" / 429x497x113mm
Weight:	Less than 4.4lbs / 2kg.

Side Tray Type C2550	
Paper Capacity	50 sheets (80g/ m ²)
Paper Size:	5½"x8½" LEF -11"x17" SEF / A5 LEF – A3 SEF
Paper Weight:	16 –28 lb / 60 -105g/m ²
Power Consumption:	Less than 40W
Dimensions (WxDxH):	18.9"x18.9"x6.7" / 480 x 480 x 170mm
Weight:	Less than 3.3lbs/1.5kg

Internal Shift Tray SH3030	
Paper Capacity	250 sheets (80g/ m ²)
Paper Size:	5½"x8½"LEF -12"x18"SEF / A6 SEF - A3 SEF
Paper Weight	52 - 256g/m ²
Power Consumption:	Less than 13W (Power is supplied from mainframe)
Dimensions (WxDxH):	16.9"x18.8"x4.2" / 431 x 477.5 x 107mm
Weight:	Less than 4.4lbs/2kg

Product Support Guide

D104/D106

Internal Finisher Type C2550					
Paper Size:			5 ½"x8 ½"LEF/SEF(HLT) – 11"x17" (DLT), 12"x18" B6 SEF - A3 SEF		
Paper Weight:			14-34lbs / 52-128g/m ²		
Stack Capacity:			500 sheets (A4 / 8 ½"x11" or larger) 250 sheets (B4 / 8 ½"x14" or larger)		
Staple Capacity:			50 sheets 30 sheets (A3, B4, 11"x17", 8½"-14")		
Staple Paper Size:			7¼" x 10½"(Executive) – 11" x 17" B5 LEF/SEF – A3 SEF		
Staple Paper Weight:			14-34lbs / 52-128g/m ²		
Staple Position:					
Staple Needle Capacity			5,000pcs/cartridge		
Punch unit (Optional)	NA	2 Holes	[Paper size] SEF: HLT – DLT/ B6 – A3 LEF: HLT, LT, A4-A5 [Paper Weight] 16 – 28lbs/ 60-105g/m ²		
		3 Holes	[Paper size] SEF: DLT, B4, A3, LEF: LT, B5, A4 [Paper Weight] 16 – 28lbs/ 60-105g/m ²		
Punch Hole Position 2hole (70mm between holes) 3 hole (108 mm between holes)		NA/2 Hole		NA/3 Hole	
Power Consumption:			50W (Power is supplied from the mainframe)		
Dimension (WxDxH):			535 x 525 x 205mm (21.1"x20.7"8.1")		
Weight:			Approx. 28.6lbs / 13kg w/o Punch Unit 37.48lbs/17kg with punch unit		

Product Support Guide

D104/D106

Printer

CPU			RM7035C-533MHz
RAM	Std.		1 GB* ¹ (DDR-SDRAM(PC2100))
Hard Disk Drive	Std.		160GB*
PDL	Std.		PCL5c, PCL6
	Option		Adobe PostScript3
Print Resolution	Max		1200 x 1200 dpi / 1bit
	Printing Modes in Each Driver	PCL5c	300 x 300 dpi (available only with B/W mode) 600 x 600 dpi <Gradation* ³ > Fast (1bit) / Standard (2bit)
		PCL6	600 x 600 dpi <Gradation* ³ > Fast (1bit) / Standard (2bit) 1200 x 1200 dpi
		PS3	600 x 600 dpi <Gradation* ³ > Fast (1bit) / Standard (2bit) 1200 x 1200 dpi
		XPS* ⁴	600 x 600 dpi <Printing Mode* ³ > Standard (1bit) / Quality Preference (2bit) 1200 x 1200 dpi
Fonts	Std.		PCL: Scalable 45 fonts + Bitmapped 6 fonts + International fonts 13 Intellifonts* ⁵
	Option		PS3 : 136 Roman fonts
Connectivity		Std.	Ethernet (RJ-45 network port : 10Base-T /100Base-TX), USB2.0, USB Host I/F
		Host Interface	Ethernet (1000Base-T)
		Option	IEEE1284/ECP, Wireless LAN (IEEE802.11a,b,g, WPA support)
	Network Protocol		TCP/IP (IPv4, IPv6), IPX/SPX, Apple Talk (Auto Switching)
	MIB support	Standard MIB (SNMP Printer MIB)	MIB-II(RFC1213), HostResource(RFC1514), PrinterMib(RFC1759), Printer Port Monitor MIB
Network/Operating System *5			Windows 2000/ XP/ Vista/ Server 2003 / Server 2008 Netware 3.12, 3.2, 4.1, 4.11, 5.0, 5.1, 6, 6.5 Unix; Sun Solaris, HP-UX, SCO OpenServer, RedHat Linux, IBM AIX Mac OS 8.6-9.2x, OS X 10.1 or later SAP R/3, NDPS Gateway IBM iSeries/ AS/400-using OS/400 Host Print Transform

Remarks:

*1 Shared with other features (Copy, Fax, Scanner).

*2 Replaced with standard 256MB slot. Max is 1G.

*3 With the combination of 'Resolution' and 'Gradation' or 'Printing Mode' settings in printer drivers, the variation of print resolution are listed in below table.

*4 We highly recommend to apply ServicePack1 to Windows Vista before using XPS driver.

*5 Cyrillic (Russian), Greek, Hebrew and Arabic are included in International Fonts.


*6 IEEE802.11g is compatible with IEEE802.b.

Product Support Guide

D104/D106

Scanner

General Specification			
Optical Resolution:		100/200/300/400/600 dpi (Default = 200 dpi)	
Scan Speed (ARDF through put):		BW: 41images/minute (A4/LET LEF / 200dpi) Color: 26 images/minute (A4/LET LEF / 200dpi)	
Auto scan size detection:	US model	Contact Glass	11"x17"(DLT) SEF, 8 ½"x14"(LG) SEF, 8 ½"x11"(LT) LEF/SEF, 5 ½"x8 ½"(HLT) LEF/SEF
		ARDF	11"x17" (DLT)SEF, 8 ½"x14" (LG)SEF, 8 ½"x11"(LT) LEF/SEF, 5 ½"x8 ½"(HLT) LEF/SEF, 10"x14"SEF, 71/4"x10½"(EXE) LEF/SEF 11"x15"SEF detected as same as DLT SEF 8 1/2"x13"(Foolscap) SEF detected as same as LG SEF 8"x10"SEF detected the same as LT SEF, 10½" x 7¼" (US EXE) LEF detected as same as LT SEF
Scan Area:		Main Scan: 297mm, Sub Scan: 432mm	
RGB Support:		Standard	
Network Interface:		Ethernet 10baseT/100BaseTX, Giga Ethernet 1000baseT Wireless LAN (IEEE802.11a,b,g, WPA support)	
Protocol:		Network: TCP/IP Sending E-mail: SMTP, POP3 Scan to Folder: SMB, FTP, NCP WS Scanner:	
Compression Method:		BW: TIFF (MH, MR, MMR) Grayscale, Full color: JPEG	
Scan Mode:		Standard: BW Text/Line Art, BW Text, BW Text/Photo, BW Photo, BW Grayscale, FC Text/Photo, FC Photo Standard: ACS	
Image Density:		Auto Density Selection Manual: 7 levels	
Image Rotation:		Yes	
SADF / Batch Mode:		Yes	
Mixed Size Mode:		Yes	

Optional USB 2.0/SD card Specification			
	Supported removable memory types	SD/ USB 2.0	
	Supported file systems	Fat 16/32	
	Supported file formats (See Note 1)	JPEG/Tiff PDF	including High Compression/Encrypted PDFs
	Maximum file size (See Note 2,3,4)	JPEG: 1GB	
		TIFF 1GB	only one file can be selected at a time
		PDF 500MB	only one file can be selected at a time
	Maximum filename length (See Note 5)	255 bytes	

Note 1: Unsupported files will not be displayed for selection on the operation panel.

Note 2: If multiple files are selected, the total size must be less than 1GB.

Note 3: If the maximum file size is exceeded, the job will be cancelled and nothing will be printed.

Note 4: The GW controller adds about 1KB of data to files when they are processed. For this reason, the max printable file size will actually be about 1KB less than sizes mentioned above.

Note 5: If a filename is 256 bytes or more, the filename will be garbled and access to the file will be denied.

Note 6: Interruption (Interrupt Key) is not supported

Note 7: If the customer wants to print PDF files from the USB/SD card slot, the PDF Direct option or Postscript 3 option must be installed. The PDF Direct option is supplied with the USB/SD card slot option.

Note 8: Scanner SP 1013 001 must be set to 1 to enable

Printer SP 1110 – 001 must be set to 1 to enable

Product Support Guide

D104/D106

Scan to E-mail

General Specification		
Requirement:		SMTP (Mail Server) Gateway and TCP/IP
Authorization function:		SMTP authentication POP before SMTP authentication
Resolution:		100dpi, 200dpi, 300dpi, 400dpi, 600dpi (Default 200)
MAX E-mail address# in HDD:		2,000 addresses
Register Group address in HDD:		Max. 100 Group (Max. 500 addresses in one group address)
Maintain E-mail address in HDD:		Direct input on operation panel, Web Image Monitor, Smart Device Monitor for Admin
Input of destination E-mail address via soft key:		Possible, Max.-100 destinations per job
Search E-mail address in HDD:		By name and E-mail address
LDAP Search:		Yes
Max. address numbers per send:		Max. 500 addresses per send *1
Address numbers per send:		Address from HDD address book *1
		Max. 500
		Address directly input via soft key *1 *2
		Max. 100
		Address looked up via LDAP *1 *2
		Max. 100
Attention:		To, cc, bcc
Subject:	Manual Input	Max. 128 Characters via soft key
	Pre-register by user	22 subjects. Max. 20 Characters per a subject
Body Message:	Manual Input	Max. 80 Characters via soft key
	Pre-register by user	5 body messages. 80 characters x 5 lines per a body message Title name of the body message: Max. 20 characters per a name
	Preset	Message: "This e-mail included attached file sent from xxxx (machine model name)."
E-mail Size (with restriction):		128- 102,400KB, Default = 2,048KB
E-mail Size (w/o restriction):		725MB
File type:		Single Page TIFF/JPEG, Single Page PDF, Multi Page TIFF, Multi Page PDF, High Compression PDF(single/multi)
Program User Setting:		Yes (up to 10 programs)
Divide and send e-mail:		Yes (By page or size) / No, Default = Yes(By size) *3
Resend:		Yes / No, Default = Yes

1: Address from HDD address book + Address input via soft key + Address looked up via LDAP = Max.500.

2: Address directly input via soft key + Address looked up via LDAP = Max. 100.

3: If the sent file size exceeded the maximum E-mail size, it would be divided to multiple sending. In addition, the sent files might not be accepted by the receiving side due to the limitation in the receiving capacity at the receiver SMTP server or E-mail software setting.

Product Support Guide

D104/D106

Scan to Folder

General Specification	
Protocol Support:	SMB (Server Message Block), FTP (File Transfer Protocol) NCP
Security:	Client folder log-in (log-in name and password) Encryption of log-in name and password during transmission
Resolution:	100dpi, 200dpi, 300dpi, 400dpi, 600dpi (Default 200)
Register client folder address in HDD:	Max. 2,000 folders
Maintain client folder address in HDD:	Direct input on operation panel, Web Image Monitor, Smart Device Monitor for admin
Destination client folder address input via soft key:	Yes SMB: Network path -> User account-> Password FTP: Server -> Network path -> User account -> Password NCP: Network path -> User account -> Password -> Bindery or NDS
Search client folder:	SMB: Browsing directly to the designated folders FTP: By client folder name NCP: Browsing directly to the designated folders
Max. client folder numbers per send:	Max. 50 client folders / PCs per send
Destination Combination:	Refer to Max address numbers per sending below
Simultaneous Transmission	Max 550
Group address:	Max. 100 destinations (To Folder: 50, To E-mail: 100) (*1) e.g. 100 destinations 50 folders included >>>OK 100 destinations 51 folders included>>>Failure
Input Subject:	No
Scan File Size:	2000
File Size when combined Scan to Folder & Scan to E-mail:	128 - 102,400kB, Default = 2,048KB (With restriction) 725MB (Without restriction) (Scan to E-mail file size applied).
File type:	Single Page TIFF/JPEG, Single Page PDF, Multi Page TIFF, Multi Page PDF, High Compression PDF
Program User Setting:	Yes (up to 10 programs)
Dividing file in Scan to E-mail:	Yes (By page or size) / No, Default = Yes(By size) (When Scan to PC combine with Scan to E-mail)
Resend:	Yes / No, Default = Yes

(*1) User can send to Max. 100 destinations in the same group. But the number of folders has to be less than 50, since Max. folder destinations are 50. If there are more than 50 folder destinations registered in the Group address, a message pops up.

Max. address numbers per sending (combination between E-mail & Folder)

General Specification				
	Input via	Condition 1: Max. address can select or input	Condition 2: Max. address allow in single operation	Condition 3: Combination of addresses: Max.
Scan to E-mail	Address book	500	500	550
	Manual input	100		
Scan to Folder	Address book	50	50	
	Manual input	50		

The number of destination which user can put has to satisfy all of above 3 conditions. User can combine E-mail and Folder destinations up to 550 destinations.

Product Support Guide

D104/D106

Network TWAIN Driver

General Specification	
OS:	Windows 2000, Server 2003, XP, Vista
Resolution:	100 – 1200dpi (Black and White / Grayscale) 100 – 1200dpi (Full Color)
Scan Mode:	Standard / Photo / OCR / Filing
Image Adjustment:	Brightness / Contrast / Threshold / Gamma Adjustment / Halftone Pattern
Stamp:	Date / Page Number / Text
Endorse:	Supported

Fax

General Specification				
Circuit		PSTN, PBX		
Compatibility:		ITU-T (CCITT) G3,		
Resolution:		8 x 3.85 line/mm, 200 x 100dpi (std.), 8 x 7.7 line/mm, 200 x 200dpi (std.), 8 x 15.4 line/mm, 16 x 15.4 line/mm, 400 x 400dpi (with optional SAF memory)		
Compression method:		MH, MR, MMR, JBIG		
Scanning speed (DF Used):		0.50sec.(A4/LT SEF, Standard/Detail mode), 0.35sec.(A4/LT LEF, Standard/Detail mode) 0.90sec.(A4/LT SEF, Super Fine mode) 0.64sec.(A4/LT LEF, Super Fine mode) ITU-T No1 chart, 200 x 100 dpi(Standard mode), 200dpi(Detail mode), 400dpi(Super Fine mode)		
		A4/LT SEF	Standard	36 spm
			Detail	36 spm
			Fine/ Super fine	22 spm (Super Fine)
		A4/LT LEF / image rotation	Standard	40 spm
			Detail	38 spm
			Fine/ Super fine	20 spm (Super Fine)
Modem speed:		33.6K – 2,400bps (G3, Standard with Automatic Shift Down) (33600, 31200, 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400 bps)		
Transmission speed:		G3: Approx.2 seconds (200x100 dpi, JBIG, ITUT #1 chart TTI off, memory transmission) G3: Approx.3 seconds Fine/ Super fine (200x100dpi, MMR, ITUT #1 chart, TTI off, memory transmission)		
Page Memory Size:		Standard	4B	
		With Optional SAF Memory	8B	
SAF Memory Size:		Standard	4MB (Approx.320 pages)	
		With Optional SAF Memory	28MB (Approx. 2,240 pages)	
		Option: 32MB SD-RAM (24MB SAF Memory + 8MB Page Memory)		
Memory backup:		One hour		
Smoothing:		Standard		
Transmission/ Reception record	TTI/RTI:	Standard		
	CSI:	Standard		
Quick dial/ Speed dial:		Standard: 2,000 numbers		

Product Support Guide

D104/D106

General Specification

Group dial:	Standard: 100 groups
Program:	Standard: 100 numbers
Redial:	Standard
Direct fax number entry:	Standard
Dual access:	Standard
User Code:	Standard
Page Counter	Standard
Auto reduction:	Standard
Wild cards:	Standard
Summer time (day light saving time):	Standard
Memory Lock ID Card	Standard
SID (Sender ID) Programming by OMR	N/A
User function key:	Standard (3 keys)
Night timer:	No
Energy saver:	Standard
LCD prompt:	Standard
Remaining memory indication:	Standard
clock adjustment:	Standard
User parameter setting:	Standard
User data transfer	Standard

Transmission Specification

General Specification

Immediate transmission:	Standard
Parallel Memory Transmission	Standard
Memory transmission:	Standard
Serial broadcasting	Standard: Max. 500 numbers
Send Later	Standard
Error Correction Mode	Standard
Page retransmission:	Standard
Image rotation:	Standard
Book Fax:	No Yes when scanning by platen
Closed network (transmission):	Standard
Double sided transmission:	Standard
Transmission reserve:	No

Reception Specification

General Specification

Automatic reception:	Standard
Manual reception:	Standard
Substitute reception:	Standard
Authorized reception:	Standard
Forwarding:	Standard
Multi Copy	Standard
Closed Network:	Standard
Reception time printing:	Standard
Center mark:	Standard
Checkered mark:	Standard
Economy printing mode:	No
Duplex reception:	Standard

Product Support Guide

D104/D106

Telephone Specification

General Specification	
Handset / telephone:	Option (For NA model only)
Telephone connection:	Standard
Monitor speaker:	Standard
Automatic voice message:	No
On hook dial:	Standard
Tone transmission:	Standard
Pause:	Standard
Pulse/tone selection:	Standard
Chain dialing:	No
Reception mode selection:	Standard
Automatic fax/phone change:	No
Reception mode switch over (remote):	No
Auto answer delay time:	Standard(SP mode)
Busy tone detection:	Standard
Silent ringing detection:	No

Internet Fax Basic Specification

General Specification	
Requirement of Mainframe:	G3 Fax option is required.
Number of Address:	2,000 HDD storage
E-mail Address Input:	From LCD operation panel, Web Image Monitor, Smart Device Monitor for Admin
Attention:	"to" or "bcc" (select only one), max 500 attentions
Destination Combination:	Internet Fax + G3 Fax, Internet Fax to PC + G3 Fax
Network:	Ethernet : 10Base-T, 100Base-TX, 1000Base-T Wireless LAN : IEEE802.11a/b/g or IEEE802.11b/g
Transmit function:	E-mail
Scan line density:	200 x 100 dpi(Standard character), 200 x 200 dpi(Detail character), 200 x 400 dpi(Fine character: optional) *1 , 400 x 400 dpi(Super Fine character: optional) *1
Original size: Scanning width:	A3 *1, B4 *1, A4
Communication Protocols:	Transmission SMTP, TCP/IP Reception POP3, SMTP, IMAP4, TCP/IP
E-mail format:	Single/Multi-part, MIME Conversion Attached file forms: TIFF-F(MH, MR *1, MMR*1 compression)
Authentication method:	SMTP-AUTH, POP before SMTP, A-POP
Internet communication:	Send and receive e-mail with a computer that has an e-mail address
E-mail send functions:	Automatic conversion of sent documents to e-mail format and e-mail transmission. Memory transmission only.
E-mail receive functions:	Automatic detection and printing of appended TIFF-F (MH) files and ASCII text. Memory reception only.

*1 Full mode

Product Support Guide

D104/D106

LAN Fax Basic

General Specification	
Paper Size:	Letter (Default for NA model), Legal, B5, A5
Resolution:	-Super Fine (400 x 400 dpi) -Detail (200 x 200 dpi) *default -Standard (200 x 100 dpi)
Gray Scale:	-Off -On normal *default -On lighter
Number of Address:	500
OS:	Windows2000, Windows XP, Windows Vista
LAN-Fax Editor support language:	1.English, 2.German, 3.French, 4.Italian, 5.Spanish, 6.Dutch, 7.Swedish, 8.Norwegian, 9.Danish, 10.Finnish, 11.Hungarian, 12.Czech, 13.Polish, 14.Portuguese, 15.Russian, 16.Korean, 17.Traditional Chinese, 18.Simplified Chinese Condition: OS need to have the same language.
Memory	Minimum required for each OS
CPU	Minimum required for each OS
HDD	Minimum required for each OS
Lan Fax Driver	M8

IP-Fax

General Specification	
Network:	LAN: Local Area Network Ethernet : 10base-T, 100base-TX, 1000base-T Wireless LAN : IEEE802.11a,b,g, or IEEE802.11b/g
Scan line density:	8 x 3.85 lines/mm, 200 x 100 dpi(Standard character), 8 x 7.7 lines/mm, 200 x 200 dpi(Details character), 8 x 15.4 lines/mm(Fine character: optional expansion memory required), 16 x 15.4 lines/mm, 400 x 400 dpi(Super Fine character: optional expansion memory required)
Original size:	Maximum A3 or 11" x 17" (DLT)
Maximum scanning size:	Standard: A3, 297mm x 432mm, Irregular: 297mm x 1200mm
Transmission protocol:	Recommended: T.38Annex, TCP, UDP/IP communication, SIP(RFC 3261 compliant), H.323 v2
Compatible machines:	IP-Fax compatible machines
IP-Fax transmission function:	Specify an IP address and send faxes to an IP-Fax compatible fax through a network. Also capable of sending faxes from a G3 fax connected to a telephone line via a VoIP gateway.
IP-Fax reception function:	Receive faxes sent from an IP-Fax compatible fax through a network. Also capable of receiving faxes from a G3 fax connected to a telephone line via a VoIP gateway

Product Support Guide

D104/D106

Document Server

General Specification	
Items	Capability
HDD Capacity	60GB(Shared with other functions)
HDD capacity for Document	8.75GB
Maximum stored documents	2,000 documents
Maximum pages per documents	1,000 pages
Maximum pages of all stored documents	6,000 sheets

Security Specification

General Specification	
Network User Authentication	Yes
IP Address Filtering	Yes
MAC Address Filtering	Yes
HDD Overwrite	Yes
HDD Encryption	Yes
Secure Print	Yes
Encrypted Secure Print	Yes
Encrypted PDF Mode	Yes
IP Sec	Yes
Secure Sockets Layer(SSL)	Yes
SNMPv3	Yes
IPV6	Yes
Transport Layer Security	TBA
Removable HDD	TBA

Authentication/Encryption

Authentication	Encryption
Window Authentication	Address Book
LDAP Authentication	Authentication Pwd encryption
Kerberos Authentication	SSL Communication
Basic Authentication	S/MME
User Code Authentication	IPsec Communication
802.1x Wired Authentication	HDD Encryption

Product Support Guide

D104/D106

MFP Supported Environments

Windows Environments

	Type	PCL5c	PCL6	RPCS	PostScript3	XPS
Windows 2000	Professional	Y	Y	N/A	Y	N
	Server	Y	Y	N/A	Y	N
	Advanced Server	Y	Y	N/A	Y	N
	Datacenter Server	N	N	N/A	N	N
Windows XP	Professional	Y	Y	N/A	Y	N
	Home Edition	Y	Y	N/A	Y	N
Windows Vista	Starter	N	N	N/A	N	N
	Home Basic	Y	Y	N/A	Y	Y
	Home Premium	Y	Y	N/A	Y	Y
	Business	Y	Y	N/A	Y	Y
	Ultimate	Y	Y	N/A	Y	Y
	Enterprise	Y	Y	N/A	Y	Y
Windows 7	Starter	N	N	N/A	N	N
	Home Basic	N	N	N/A	N	N
	Home Premium	Y	Y	N/A	Y	Y
	Professional	Y	Y	N/A	Y	Y
	Ultimate	Y	Y	N/A	Y	Y
	Enterprise	Y	Y	N/A	Y	Y
Windows Server 2003	Standard Edition	Y	Y	N/A	Y	N
	Enterprise Edition	Y	Y	N/A	Y	N
	Datacenter Edition	N	N	N/A	N	N
	Web Edition	N	N	N/A	N	N
Windows Server 2008	Standard Edition	Y	Y	N/A	Y	Y
	Enterprise Edition	Y	Y	N/A	Y	Y
	Datacenter Edition	N	N	N/A	N	N
	Web Edition	N	N	N/A	N	N
Windows Server 2008R2N	Standard Edition	Y	Y	N/A	Y	Y
	Enterprise Edition	Y	Y	N/A	Y	Y
	Datacenter Edition	N	N	N/A	N	N
	Web Edition	N	N	N/A	N	N

1 - Adobe does not release PS driver for Windows2000 and XP. Only MS-PostScript driver is available and PPD file for MS-PS is included in the Driver CD.

2 - Cluster Server configuration is not supported.

Settings For Print Driver

Resolution	600dpi	600dpi	600dpi	1200dpi
Gradation	Fast	Standard	Fine	Fast
Printing Mode	Standard	Quality Preference	High Quality	Standard
Result	600x600dpi(1 bit)	600x600dpi(2 bit)	600x600dpi(4 bit)	1200x1200dpi(1 bit)

Product Support Guide

D104/D106

Point & Print

Window OS		Driver			
Server	Client (Push to)	PCL 5c/6	RPCS	PS	XPS
Windows Server 2003	7	Yes	N/A	Yes	No
	Vista	Yes	N/A	Yes	No
	XP	Yes	N/A	Yes	No
	W2K Pro	Yes	N/A	Yes	No
Windows XP Professional	7	Yes	N/A	Yes	No
	Vista	Yes	N/A	Yes	No
	XP	Yes	N/A	Yes	No
	W2K Pro	Yes	N/A	Yes	No
Windows 2000 Professional, Server & Advanced Server	7	Yes	N/A	Yes	No
	Vista	Yes	N/A	Yes	No
	XP	Yes	N/A	Yes	No
	W2K Pro	Yes	N/A	Yes	No
Windows Vista	7	Yes	N/A	Yes	Yes
	Vista	Yes	N/A	Yes	Yes
	XP	Yes	N/A	Yes	No
	W2K Pro	Yes	N/A	Yes	No
Windows Server 2008	7	Yes	N/A	Yes	Yes
	Vista	Yes	N/A	Yes	Yes
	XP	Yes	N/A	Yes	No
	W2K Pro	Yes	N/A	Yes	No
Windows Server 2008R2	7	Yes	N/A	Yes	Yes
	Vista	Yes	N/A	Yes	Yes
	XP	Yes	N/A	Yes	No
	W2K Pro	Yes	N/A	Yes	No

Terminal Service and Citrix MetaFrame

Server	Driver		
	PCL5c/6	RPCS	PS
Windows Server 2008R2	Yes	N/A	Yes
Windows Server 2008	Yes	N/A	Yes
Windows Server 2003	Yes	N/A	Yes
Windows 2000 Server	Yes	N/A	Yes
Win 2003 Servers + MetaFrame	Yes	N/A	Yes
Win 2000 Servers + MetaFrame	Yes	N/A	Yes
Win 2003 Servers + Citrix PresentationServer4.0	Yes	N/A	Yes
Win 2000 Servers + Citrix PresentationServer4.0	Yes	N/A	Yes
Win 2003 Servers + Citrix PresentationServer4.5	Yes	N/A	Yes
Win Server 2008 + XenApp5.0	Yes	N/A	Yes

RPCS driver has been discontinued.

XPS driver is not supported in the environment of terminal service and Citrix MetaFrame.

Even "Yes" is put in the cell, there is a case driver is not supported under the combination of FR and Service Pack of Meta Frame.

Following combinations of operating system and Citrix MetaFrame are supported.

Windows 2000 Server /Advanced Server

1. Windows Terminal Service (RDP protocol)
2. MetaFrame XP 1.0 SP1/SP2/SP3/SP4 /FR1/FR2/FR3 (ICA protocol)
3. MetaFrame PresentationServer3.0
4. Citrix PresentationServer4.0

Product Support Guide

D104/D106

Windows 2003 Server

1. Windows Terminal Service (RDP protocol)
2. MetaFrame XP 1.0 SP4 /FR3 (ICA protocol)
3. MetaFrame PresentationServer3.0
4. Citrix PresentationServer4.0
5. Citrix PresentationServer4.5

Windows 2008 Server

1. Windows Terminal Service (RDP protocol)
2. Citrix XenApp5.0

Mac OS Environment

	PostScript3	Printer Utility for MAC
Mac OS 8.6 or later, Mac OS X classic	No	No
Mac OS X Native : v. 10.2 or later *1	Yes	No

*1: Mac OS X v.10.0.X and v.10.1 is not supported.

UNIX Environment

Supported platforms for Unix Filter

Unix platforms	Version
Sun Solaris	2.6 / 7 / 8 / 9 / 10
HP-UX	10.x / 11.x / 11iv2/11iv3
Red Hat Linux	6.x / 7.x / 8.x / 9.x / Enterprise
SCO OpenServer	5.0.6 / 5.0.7 / 6.0
IBM AIX	V4.3 & 5L Version 5.1 / 5.2 / 5.3

Novell Netware

Netware Server	Supported Version	Netware 3.12 / 3.2 / 4.1 / 4.11 / 5.0 / 5.1 / 6.0 / 6.5
	Client OS	Windows 2000 / XP / Professional / Vista / 2008 / 7

NOTE 1: The difference between Ricoh NDPS Gateway and Novell generic NDPS gateway are as the following:
 Novell generic NDPS gateway cannot automatically set status of accessories. (You can set a status of accessories manually.)
 Novell generic NDPS gateway cannot display a status of accessories by bitmap.

SAP R/3 Environment (Device Type / Barcode & OCR Package)

	R/3 version	3.x or later , mySAP ERP2004 or later
Supported environments	Platform	Independent
	PDL	PCL5e/PCL 5c
	Character Set	Latin 1(Western European), Latin 2 (Eastern European)
	Localization	English only
Supported features	i.e: Input/Output Bin, Duplex, Stapling, Punching, Resolution, Collation, EconoMode/TonerSaving, Smoothing, Page Protect, Auto Tray Change/Opt Tray select	
Supported Barcode & OCR Fonts* (* BOP will be procured locally.)	Barcode Fonts (Support Latin 1 only)	Code 128, Code 39, Code 93, Codabar, 2 of 5 interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN
	OCR Fonts	OCR A, OCR B

Supported Schedule as follow

Device Type will be provided from SAP itself in SAP Printer Vendor Program.

For the detailed specification, please refer to another announcement to be issued in the future.

Product Support Guide

D104/D106

Printer Driver Specifications

Print Driver Features	PCL5c/ 6	RPCS	PostScript3		XPS
			Windows 2000/XP/Vista/7	Mac OS X v.10.2 or later	
Send to Job Binding	N	N/A	N	N	N
Send to Document Server	Y	N/A	Y	Y	Y
Sample Print	Y	N/A	Y	Y*	Y
Locked Print	Y	N/A	Y	Y*	Y
Hold Print	Y	N/A	Y	Y*	Y
Stored Print	Y	N/A	Y	Y*	Y
Stored Print (Shared)	Y	N/A	N	N	N
Store and Print	Y	N/A	Y	Y	Y
Store and Print (Shared)	Y	N/A	N	N	N
Store to Document Server (RGB)	N	N/A	N	N	N
Reduce/Enlarge (Zoom/Scaling)	Y*1	N/A	Y	Y	Y
Reduce/Enlarge Centering	N	N/A	N	N	N
Fit to Paper size	Y	N/A	Y	Y	N
Unauthorized Copy Control	N	N/A	N	N	N
Layout (N-up, Page per Sheet)	Y	N/A	Y	Y	Y
Poster	N	N/A	N	N	N
Duplex	Y	N/A	Y	Y	Y
Booklet1	N	N/A	N	N	N
Booklet2 (Magazine)	Y	N/A	Y	N	Y
Non-Reduction Booklet	Y	N/A	N	N	N
Watermark	Y	N/A	Y	Y	N
Overlay	N	N/A	N	N	N
Header/Footer	N	N/A	N	N	N
Adjust image position	N	N/A	N	N	N
Binding Margins	N	N/A	N	N	N
Collate	Y	N/A	Y	Y	Y
Punch	Y	N/A	Y	Y	Y
Staple	Y	N/A	Y	Y	Y
Cover sheet(Front Cover)	Y	N/A	N	N	N
Front and Back Cover	Y	N/A	N	N	N
Slip Sheet	Y	N/A	N	N	Y
Chaptering	Y	N/A	N	N	N
Rotate by 180 degrees	Y	N/A	Y	Y	Y
Reverse Order Print	N	N/A	Y	Y	Y
Do not print Blank pages	Y*2	N/A	N	N	N
Dithering	Y	N/A	Y	Y	N
Toner Saving	N	N/A	Y	Y	Y*3
Black Over Print	Y	N/A	Y	Y	N
CLP Color Simulation	Y	N/A	Y	Y	N
Quality	N	N/A	N	N	N
Speed	N	N/A	N	N	N
High Speed	N	N/A	N	N	N
User ID	Y	N/A	Y	Y	Y
User Code	Y	N/A	Y	Y	Y
User Authentication	Y	N/A	N	N	N

Product Support Guide

D104/D106

Print Driver Features	PCL5c/ 6	RPCS	PostScript3		XPS
Encryption/Encoding	Y	N/A	N	N	N
Mirror Image Print	N	N/A	Y	N	N
Negative Image Print	N	N/A	N	N	N
Edge to Edge Print	Y	N/A	Y	Y	N
Limitation setting	Y	N/A	N	N	N
Classification Code	Y	N/A	N	N	N

Y: supported

N: not supported

N/A: Not available

Mac OS 8.6-9.2 is not supported

1: "Centering" feature cannot be selected from PCL driver. However PCL has this feature as the original function.

When printing with Reduce/Enlarge (Zoom) feature of PCL driver, the output will be automatically centered by the PCL's original centering function.

2: This feature cannot be set from printer driver but is set "On" at "PCL setting" of MFP.

3: This function is available only when "Black and White" is selected.

Utility Software

Software	Description
For GW Controller Font Manager	This software enables you to use screen fonts.
Smart Device Monitor for Admin	This software enables you to manage and monitor printers and other devices over the network.
DeskTopBinder – SmartDeviceMonitor for Client	This software enables you to access networked printers to print, monitor or to receive notifications. With DeskTopBinder Lite you can connect client computers to I/O devices enabling you to efficiently manage data.
Device Graphic Update Module	Device Graphic Update Module provides bitmap images used to represent the various statuses of devices graphically within Smart Device Monitor or Web Smart Device Monitor. Available on website.
Printer Utility for Mac	This is a utility for Macintosh that provides access to several network printing administrative features.
PS Descriptions	PPD for Mac By interacting with the Adobe PostScript 3 controller in the device, this PPD is able to produce an accurate representation of the screen image.
Mac OS X PPD Installer	This PPD installer is used to install a PPD (Postscript Printer Description) file on Mac OSX. PPD files contain descriptions of printer capabilities such as paper sizes, number of input trays and duplexing. Once the PPD file is installed on the system using the PPD installer, the PS driver that comes bundled with Mac OS X can use the information in the PPD to control the print device and enable full functionality. It supports the Mac OS X 10.1 or later. Please see the Readme file for information about compatibility with versions of Mac OS X.
LAN FAX Driver M10	This software enables you to fax documents directly from your computer. The Address Book Editor and Cover Sheet Editor are installed as well. This software requires the optional fax unit to be installed on the machine. M10 Driver
PCL 6 Driver	Printer driver for B/W printing in Windows. It supports HP PCL XL commands and is optimized for the Windows GDI. High performance printing can be expected.
PCL 5c Driver	Printer driver for printing in Windows. It supports HP PCL 5c commands.
Post Script Driver	By interacting with the Adobe PostScript 3 controller in the device, this driver is able to produce an accurate representation of the screen image.
GW Controller Network TWAIN Driver	TWAIN scanner driver for network connections with new features Combine/Series, compatible with SNMP V3 and Network Connection Tool.

Product Support Guide

D104/D106

Other MFP Support Information

Not Applicable

Counters

User Tools / Counter → Counter → OK → Print → Start

User Tools / Counter → Arrow Down → System Settings → OK → Arrow up until Administrator Tools →

OK → Arrow up until Display / Print Counter → OK → Print → Start

Maximum 7 digits

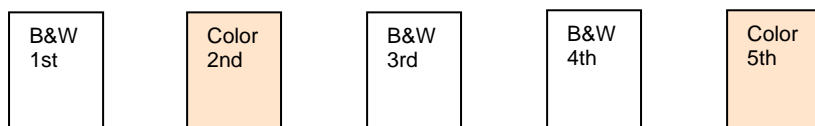
Mechanical counter 7 digits – Location: open front cover – Left Hand Corner. This counter is covered.

Auto Color Selection (ACS)

The following is the same as the ACS mechanism on the D037/D038/D041 series.

In B&W mode, B&W pages printed after a color page are counted as black and white. In ACS mode, these pages are counted as color mixed pages.

Once the ITB (Image Transfer Belt) unit has moved into contact with all the color drums to print a color page, it remains in this position throughout the end of the job, even if there are B&W pages following the color page. For example, when sending 10 copies of 5 originals as one job and only the second page contains color data, the ITB unit moves into contact with all the color drums just before printing the second page. It then remains in contact with the drums until all 50 pages have been printed out.



In this example, the counters would then increment as shown in the table below.

SP Number	Counter	Counter Value
SP8-581-004	D: Color	6
SP8-581-005	D: B&W	5
SP8-581-006	C: Color	2
SP8-581-007	C: B&W	3

D: Developments (Color = CMY drums, B&W = Bk drum)

C: Copies

Note: The counters count up in the manner explained above, in order to accurately reflect the number of color and B&W outputs made. This means that when printing B&W pages after a color page has been printed, the color counters do not count up (even when the color drums and development units rotate). So the usage of the various drums is not reflected accurately.

Product Support Guide

D104/D106

Paper

Recommended Throughput Material

Sheet Name	Vendor	Paper Weight g/m2	Paper Type	Setting	Paper Source
AquaAce Tick LT	Mitsubishi Kagaku Media	230	Waterproof	Thick 1	Tra1/Bypass
AquaAce Tick DLT	Mitsubishi Kagaku Media	230	Waterproof	Thick 1	Tra1/Bypass
SpringHill Digital Index White(15300)	International Paper	199	Thick	Thick 2	Tra1/Bypass
Hammermill OfficeOne Business Gloss(163020)	International Paper	86	Coated	Middle Thick	Tra1/Bypass
White Mailing Labels(05160)	Avery	216	Label	Thick 1	Tra1/Bypass
White Mailing Labels(05163)	Avery	199	Label	Thick 1	Tra1/Bypass
Lase Quality Envelope (#C0125)	Columbian	-	Envelope	Thick 1 Middle Thick	Bypass Bypass
Business Envelope (#qua 11126)	Quality Park	-	Envelope	Middle Thick	Bypass
Business Envelope (#qua 11184)	Quality Park	-	Envelope	Middle Thick	Bypass
White Wove(53535) Kentove W	National Envelope	-	Envelope	Middle Thick	Bypass
White Wove(03982) Printmaster	National Envelope	-	Envelope	Thick 1 Middle Thick	Bypass Bypass
Kromekote Laser High Gloss Cover	Smart Papers	184	Coated	Thick 2	Tra1/Bypass
Kromekote Laser High Gloss Cover	Smart Papers	219	Coated	Thick 3	Tra1/Bypass
Hewlett Packard Q1298A LJ Satin Finish Tough	HP	-	Waterproof	Thick 1	Tra1/Bypass
Phaser Waterproof Paper	Xerox	100	Waterproof	Plain Paper 2	Tra1/Bypass
Print to Last(FP3712)	3M	120	Waterproof	Thick 2	Tra1/Bypass
White Mailing Labels L7159-250	Avery	-	Label	Thick 1	Tra1/Bypass
White Mailing Labels L7160-500	Avery	-	Label	Thick 1	Bypass
Plus Fabric Wallet Envelopes (Gummed) L24770	John Dickerson	110	Envelopes	Special Paper 2	Bypass
Color Copy Gloss 200	Mondi BP	200	Coated	Thick 2	Tra1/Bypass
Color Copy Gloss 170	Mondi BP	170	Coated	Thick 2	Tra1/Bypass
Silver Digital 200	Zanders	200	Coated	Thick 2	Tra1/Bypass
Silver Digital 250	Zanders	250	Coated	Thick 3	Tra1/Bypass

Product Support Guide

D104/D106

Non Recommended Throughput Material

Refer to pages in the Operators Instructions Hardware Guide.

Do not use any of the following kinds of paper or a fault might occur:

- Aluminum Foil, Carbon paper,
- Conductive paper
- Paper meant for an inkjet printer
- Bent, folded, or creased paper
- Torn paper
- Thermal fax paper
- Art paper
- Paper with perforated lines
- Hemmed-edge paper
- Tab stock
- Slippery paper
- Perforated paper
- Rough paper
- Thin paper with little stiffness
- Paper with a dusty surface

Special Paper

Not Applicable

Product Support Guide

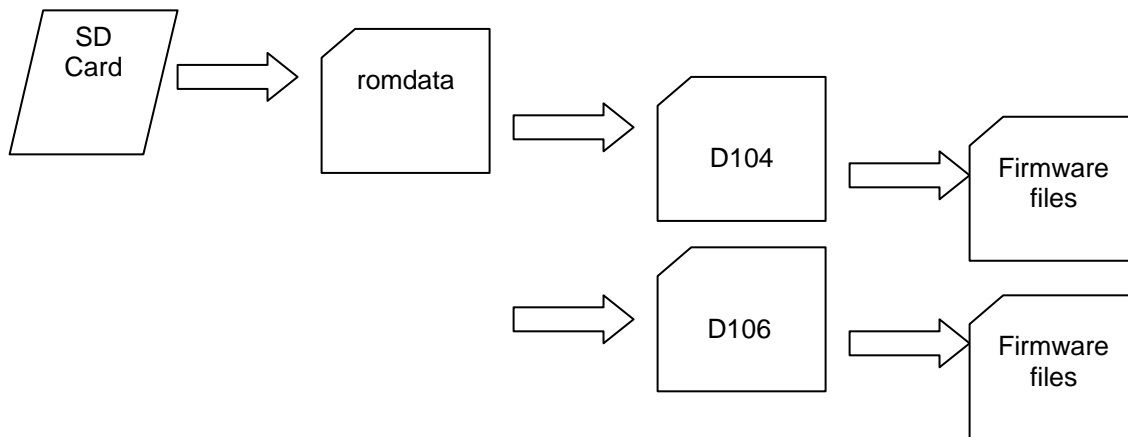
D104/D106

Firmware Information

Firmware

Firmware SD Card	Firmware Type	Firmware Version	rfg number (SD Card)	rfg number (Remote)
ADF Document feeder	ADF	01.010.05	rfg046555	NA
Engine	Engine	1.06.03	rfg046556	rfg046492
Fax	Fax	01.00.00	rfg046557	rfg046552
FCU	FCU	01.00.00	rfg046558	rfg046553
Language	Language	1.01	rfg046560	NA
Media Print	Media Print	1.00.01	rfg046563	rfg046546
Network Doc Box	Net File	1.02	rfg046564	rfg046542
Network Support	NIB	10.51.2	rfg046565	rfg046534
Op panel	LCDC	1.01	rfg046562	rfg046545
PCL	PCL	1.01	rfg046566	rfg046547
PDF	PDF	1.00	rfg046567	rfg046548
Power Saving System	Power Saving System	F.13	rfg046568	rfg046551
Printer	Printer	1.00.1e	rfg046570	rfg046524
PS/PDF	PS/PDF	1.00	rfg046572	rfg046549
Remote Fax	Remote Fax	01.00.00	rfg046573	rfg046554
RPCS	RPCS	3.10.17	rfg046574	rfg046550
Scanner	Scanner	01.05	rfg046575	rfg046525
System/copy	System/copy	1.00.2	rfg046578	rfg046522
Web Support	Web System	1.00.1	rfg046584	rfg046543
WebUapl	WebUapl	1.01	rfg046585	rfg046544

SD Card Arrangement



Product Support Guide

D104/D106

Contact Information

Name	Contact
Technical Services Call Center (Hotline)	Ricoh: (800) 537-4264 Savin/Gestetner: (800) 291-6044 Lanier: (800) 333-3147
Application Help Desk (Software Issues)	Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU Savin Phone Card: 2 Call - 12992, 5 Call - 12993 Gestetner Phone Card: 2 Call - 12994, 5 Call - 12995
National Reclamation Center	(800) 557-4264
Technology Solutions Center Web Site	http://www.tscweb.net
Ricoh Web Site	http://www.ricoh-usa.com/
Savin iLINC Web Site	http://www.savin.com
Headquarter Web Sites	Ricoh Corporation: http://www.ricoh-usa.com Savin Corporation: http://www.savin.com Gestetner Corporation: http://www.gestetnerusa.com/ Lanier Corporation: http://www.lanier.com
Material Safety Data Sheets	(800) 336-MSDS (6737)
Ricoh University	973.882.2200. http://www.ricohuniversity.com

Training Information

Documentation

Description	EDP Code	RFG E-Source Number
Training will be accomplished by a self paced course with a 20 question final exam for technicians that are currently certified on the D023/D025/D027/D029/D037/D038/D041 Series machines.	TBA	TBA
A 5 day Instructor Led Training Course will be offered for technicians not trained on the D023/D025/D027/D029/D037/D038/D041.	TBA	TBA
Service Manual D104/D106	TBA	rfg047122
Parts Catalog	TBA	rfg047123
Point to Point	TBA	rfg047124
Operations Manual	TBA	rfg047125
Electrical Component Layout	TBA	TBA
Finisher Installation Video (Same as D037/D038/D041)	TBA	rfg035732

Please refer to the <http://www.ricohuniversity.com/> web site for the most up to date training information.

Please be aware that once a model or series is out of production, the Field Service Manual, Technical Service Bulletins and Ricoh University should be referenced for the most current information. Check the TSC website and e-source.

Product Support Guide

D104/D106

Revisions

- V1.1 - Page 1 - Model corrected.
Page 13 - Yield Information 3 p/j.
- V1.2 - Page 12 - PM/EM table corrected.
Page 4 - Optional USB Keyboard added.
- V1.3 - Page 4 - Toner compatibility added.
Page 2, 22 - Note to set SP 5063 002 when installing the envelope tray option.
- V1.4 - Page 3 - Data Overwrite Security Unit changed from Type I to Type H.
- V1.5 - Page 1 – Added “The D104/D106 series is replacing the D037/D038/D041 series”.
Page 12 – Note 5 changed to add Target Yield of 240K.
Page 14 – Removed P/N B6456830 - USB Reader/Writer from Special Tools Chart.